



SB-0714

Second Year B. Sc. Examination

March / April – 2011

**Computer Science : Paper - V
(RDBMS)**

Time : Hours]

[Total Marks : 70

Instructions :

(1)

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| नीचे दर्शावेल निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी. Fillup strictly the details of signs on your answer book. | Seat No. : |
| Name of the Examination : | <input type="text"/> |
| <input type="text" value="S. Y. B. Sc."/> | <input type="text"/> |
| Name of the Subject : | <input type="text"/> |
| <input type="text" value="Computer Science-5"/> | <input type="text"/> |
| Subject Code No. : <input type="text" value="0"/> <input type="text" value="7"/> <input type="text" value="1"/> <input type="text" value="4"/> | Section No. (1, 2,.....) : <input type="text" value="Nil"/> |
| Student's Signature | |

- (2) All questions carry equal marks.
- (3) Question 1 is compulsory.
- (4) Figures in the right side indicate full marks.

1 Answer in brief : 14

- (1) What do you mean by data redundancy ?
- (2) Define DCL with example.
- (3) State difference between primary key and candidate key.
- (4) What is the meaning of normalization ?
- (5) Define concurrent access.
- (6) Differentiate between CHAR and VARCHAR data types.
- (7) What is Data Security ?

2 (a) What is role of database administrator in a database system ? Explain in detail. 14

- (b) Draw E-R diagram for supplier-part-project relationship supplier (Sno, Sname, Status, city) part (Pro, Pname, color, weight) Project (Jno, Jname, City) Supp-Part-Project (Sno, Pno, Jno, Qty).

OR

2 (a) Write a note on authorization and views. 14

- (b) Describe system errors and hardware failure concepts.

- 3 (a) What is normalization ? Why it is necessary ? 14
Explain it.
(b) Discuss different normal forms.

OR

- 3 (a) Differentiate between restrict and project relation 14
operators.
(b) Define degree, cardinality and attributes in terms of
relation with example.

- 4 (a) Explain any 7 oracle function (SQL). 14
(b) State importance of view with example.

OR

- 4 (a) Write a note on cursor. 14
(b) What is Database Trigger ? Why we use Trigger ?

- 5 Attempt any two : 14
(a) Write a P4SQL block code to print multiplication table
of the given integer number.
(b) Create a function check-dno that check given dept-no
is exists in dept-mast table (deptno, name) or not also
write program code to input deptno and display proper
message by using above function.
(c) Write and delete trigger audit-dept on dept-mast table.
The system should keep track of records that are being
deleted. The old values of deleted record should be added
in audit-trial table (deptno, dname, operation type,
userid, operation_date).
